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TRM-407C



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QR-CAT-PAPR

PAPR Catalogue Section

QR-CAT-FULL

Full Personal Safety Division Catalogue

TRM-407C TR-300+ PAPR Kit includes

- TR-302E+ Air filter unit,
- M-407 Headtop with flame resistant shroud
- BT-30 Breathing Tube
- TR-970 Air flow indicator
- TR-332 Battery Pack
- TR-342A Single station Battery charger
- TR-3712E PAPR-P3 Particulate filter
- TR-371+ Filter cover
- TR-3600 Prefilter
- TR-362E Spark arrestor
- TR-325 Standard waist belt
- S1303-0166 padded bag

		Availability			
SAP ID	Legacy ID	AUS	NZ	Model #	Description
7012875691	AT010590563	•	•	TRM-407C	3M™ Versaflo™ TR-300+ PAPR Kit which includes TR-302E+ Air filter unit, M-407 Headtop with flame resistant shroud, BT-30 Breathing Tube, TR-970 Air flow indicator, TR-332 Battery Pack, TR-342A Single station Battery charger, TR-3712E PAPR-P3 Particulate filter, TR-371+ Filter cover, TR-3600 Prefilter, TR-362E Spark arrestor, TR-325 Standard waist belt and S1303-0166 padded bag

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3M™ Versaflo™ TR-300+ Powered Air Turbo

Technical Data Sheet



Description

The 3M™ Versaflo™ TR-300+ Powered Air Turbo is a belt-mounted air purifying device. When combined with one of the 3M approved headtops, it forms a power-assisted system for respiratory protection against particles (and nuisance odour where applicable). The TR-300+ Powered Air Turbo can be used with the following 3M headtops: S-Series & M-Series.

Features

- Two user selectable flow rates
- Controlled airflow delivers steady flow as battery discharges or filters loads with particulates
- Display shows battery charge status, selected airflow and particulate filter loading status during use
- Audible and LED alarm signals low battery charge or low airflow
- Three filter options available:
    - o TR-3712E PAPR-P3 Particulate only
    - o TR-3802E PAPR-P3 Particulate plus nuisance level organic vapours*
    - o TR-3822E PAPR-P3 Particulate only nuisance acid gas * and offers protection against hydrogen fluoride up to 10 x Occupational Exposure Limit
- Lithium ion battery with LED to indicate charge status
- Three belt options (TR-325 standard, TR-327 easy-clean and TR-326 leather) for a range of applications
- Suitable for use in decontamination shower (IP 53)

* Nuisance level refers to concentrations below the Occupational Exposure Limit

Standards

The TR-300+ Powered Air Turbo, in combination with 3M approved headtops, has been tested and is compliant with AS/NZS 1716:2012. The TR-300+ Powered Air Turbo also meets the following requirements:

- Dust protection and protection against spraying water to EN60529 IP 53.



Applications

The TR-300+ Powered Air Turbo, when used as part of an approved system with appropriate filters, provides protection against:

- Particles e.g. fine dusts, mists and metal fume.
- Nuisance odour levels (below the Occupational Exposure Limit) of organic vapours
- Nuisance odour levels (below the Occupational Exposure Limit) of acid gases and up to 10 x Occupational Exposure Limit of hydrogen fluoride.

The TR-300+, when used with an appropriate 3M headtop and filters, may be used in various applications including:

- Agriculture
- Chemical Industry
- Construction and Building Renovation
- Demolition
- Food and Beverage
- Medical and Healthcare
- Metalworking
- Pharmaceutical Manufacturing
- Pulp and Paper Processing
- Smelting and Foundries
- Surface Preparation
- Woodworking

Materials

Component	Material
Turbo body	Acrylonitrile butadiene styrene (ABS)
Filter cover	Acrylonitrile butadiene styrene (ABS)
Battery casing	Acrylonitrile butadiene styrene (ABS)
Belts	TR-325 Standard polyester web belt TR-325 Polyurethane coated polyester easy-clean belt TR-325 Leather belt

Limitations

The TR-300+ Powered Air Turbo should not be used in the following conditions:

- In atmospheres containing less than 19,5 % oxygen
- Confined spaces (lack of ventilation)
- When the risk is considered to be Immediately Dangerous to Life or Health (IDLH).
- Where the contaminant concentration is above the Occupational Exposure Limit defined for the headtop used (see relevant User Instructions for the headtop)

Product Range

TR-300+ Powered Air Turbo is available to buy as:

- TR-302E+ Turbo Unit (includes filter cover, airflow indicator and spark arrestors)
- TR-315A+ Starter Kit (includes TR-302E+ Air filter unit, BT-30 Breathing Tube, TR-970 Air flow indicator, TR-332 Battery Pack, TR-342A Single station Battery charger, TR-3712E PAPR-P3 Particulate filter, TR-371+ Filter cover, TR-3600 Prefilter, TR-362E Spark arrestor and TR-325 Standard waist belt. Does not include a headtop/hood which is required to be purchased separately)



TR-315A+ Starter Kit

Technical specifications

Required Minimum Protection Factor (RMPF): Depends on 3M headtop used.

Particulate Protection Factors	
All M-Series and S-Series Headtops and Hoods	50
Outlet Flow Characteristics	
Stated manufacturer's Minimum Design Flow (MMDF)	170l/min
Standard Flow	185 l/min +/- 10 l/min
High Flow	205 l/min +/- 10 l/min
Battery Duration (with new filter and new battery)	
High-capacity battery	Standard Flow 9-12 hours High Flow 9-10 hours
Battery Charge Time	
High capacity battery pack	less than 3.5 hours
Storage conditions	-30°C to +50°C < 90 %RH
Operating temperature	-10°C to +55°C
Shelf Life*	5 years from date of manufacture
Weight (including high capacity battery, belt and filter)	Approx. 1135 g

*The shelf life as defined above remains an indicative and maximum data, subject to many external and non controllable factors. It may never be interpreted as a warranty.

Compatible Hoods and Headtops



Ordering Information

		Availability			
SAP ID	Legacy ID	AUS	NZ	Model #	Description
7012909223 (AU) 7012761525 (NZ)	AT010590241 (AU) XA010037779 (NZ)	•	•	TR-315A+	TR-300+ Versaflo Starter kit which includes TR-302E+ Air filter unit, BT-30 Breathing Tube, TR-970 Air flow indicator, TR-332 Battery Pack, TR-342A Single station Battery charger, TR-3712E PAPR-P3 Particulate filter, TR-371+ Filter cover, TR-3600 Prefilter, TR-362E Spark arrestor and TR-325 Standard waist belt. Does not include a headtop/hood which is required to be purchased separately
7100123725	UU008566075	•	•	TR-302E+	3M™ Versaflo™ Powered Air Turbo Unit TR-302E+, 1 ea/Case



TR-3712E
PAPR-P3



TR-3802E
PAPR-P3 with nuisance* OV



TR-3822E
PAPR-P3 with nuisance* AG



TR-3600



TR-362E

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Filters

SAP ID	Legacy ID	Availability AUS	Availability NZ	Model #	Description
7000059880	AT010592650 (AU) CR180811422 (NZ)	•	•	TR-3600	3M™ Versaflo™ TR-300+ Prefilter, TR-3600, 1/case
7100266123	UU011647516	•	•	TR-3712E	3M™ Versaflo™ Filter PAPR-P3, TR-3712E
7100018809	78815069386	•	•	TR-3802E	3M™ Versaflo™ Filter PAPR-P3 with Nuisance* Organic Vapour, TR-3802E
7100018861	78815069394	•	•	TR-3822E	3M™ Versaflo™ PAPR-P3/HF/Nuisance* Level Acid Gas Filter TR-3822E, for 3M™ Versaflo™ TR-300 Turbo Series, 1 Filter/ Car, 5 Car/Case
7000103970	XA007706659	•	•	TR-362E	3M™ Versaflo™ Spark Arrestor TR-362E, 1/Car, 1 Carton/Case

* Nuisance levels are those levels below the SafeWork Australia Workplace Exposure Limits (WEL) and WorkSafe New Zealand Workplace Exposure Standards (WES)



BT-20 S/L



BT-30



BT-40

QR-PSA-BT
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Breathing Tubes

SAP ID	Legacy ID	Availability AUS	Availability NZ	Model #	Description
7100296133	70071767472	•		BT-20L	3M™ Versaflo™ Breathing Tube BT-20L, Medium/Large, 1 ea/Case. Fixed length lightweight Polyurethane L=965mm
7100134625	70071533023	•		BT-20S	3M™ Versaflo™ Breathing Tube, BT-20S/37309(AAD), Small/Medium, 1 EA/Case. Short Fixed length lightweight Polyurethane L=735mm
7100006955	XA007706584	•	•	BT-30	3M™ Versaflo™ Breathing Tube, Self-adjusting, BT-30 L= 525-850
7100069524	UU003085113	•	•	BT-40	3M™ Versaflo™ Heavy Duty Breathing Tube BT-40, 1 ea/Case Fixed length Neoprene Rubber L=840mm


TR-325


TR-326


TR-327


TR-381


BPK-HD


TR-927


TR-342A


TR-332


S1303-0166


TR-971


TR-371+


TR-342-3


TR-627X


TR-626X


TR-300 (TR-342) and TR-600 (TR-642) charging cradles can be linked together up to 10 cradles/ chargers

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Spare Parts & Accessories

SAP ID	Legacy ID	Availability AUS	Availability NZ	Model #	Description
7100006958	XA007706592	•	•	TR-325	3M™ Versaflo™ Standard Waist Belt TR-325, 1 Pack/Case
7000103972	XA007706691	•		TR-326	3M™ Versaflo™ Leather Waist Belt TR-326, 1/Case
7000103973	XA007706709	•	•	TR-327	3M™ Versaflo™ Easy-clean Waist Belt TR-327, 1 ea/Case
7100005643	XA007706568	•	•	TR-332	3M™ Versaflo™ High Capacity Battery TR-332, 60 Wh, 1 ea/ Case. Run time with new battery pack, clean filter and fully charged is approx. 8-12 hours. Recharge time is <3.5 hours
7100326780	UU012578512	•	•	TR-332	3M™ Versaflo™ Battery TR-332, High Capacity, 60 Wh, 10 EA/Case (Phase In). Run time with new battery pack, clean filter and fully charged is approx. 8-12 hours. Recharge time is <3.5 hours
7100349759	UU013206378	•	•	TR-342A	3M™ Versaflo™ Single Station Battery Charger Kit TR-342A, for Versaflo™ TR-300+ PAPR with power cord, 1 EA/Case
7100343210	70100401606	•	•	TR-342-3	3M™ Versaflo™ 3-Station Battery Charger Pack Only TR-342-3, for Versaflo™ TR-300+ PAPR, No power cord, 1 Pack/Case
7100260719	70071765583	•	•	TR-381	3M™ Versaflo™ PAPR Cover TR-381, for TR-300+ PAPR, 10 ea/Case. Polypropylene non woven and polyester mesh. Does not include PAPR blower.
7100035832	70071618147	•		TR-626X	3M™ Versaflo™ Belt Extender TR-626X, for TR-626 High Durability Belt, 1 EA/Case
7100035834	70071618162	•	•	TR-627X	3M™ Versaflo™ Belt Extender TR-627X/37346(AAD), for TR-627 Easy Clean Belt
7100300071	UU012452437	•	•	TR-927	3M™ Versaflo™ Easy Clean Backpack TR-927, 1 ea/Case
7100035846	70071668076	•	•	TR-971	3M™ Versaflo™ Air Flow Indicator TR-971 for all Versaflo™ PAPR units with M/S-Series loose fitting headtops, 1 EA
		•	•	BPK-HD	3M™ Versaflo™ & Speedglas™ Heavy-Duty Back Pack BPK-HD. Suitable for TR-300+, TR-600, TR-800 and Adflo
7012880650	AT010601550	•	•	S1303-0166	3M™ Versaflo Storage PAPR Bag S1303-0166, 1 Bag/Case
7100099577	UU006386765	•	•	TR-371+	3M™ Versaflo™ Filter Cover TR-371+, for TR-300/TR-300+, 1 Bag/Case

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TRM-207C



TRM-307C

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TRM-407C



CAPM-307C

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Ready to use TR-300+ PAPR Kits

		Availability			
SAP ID	Legacy ID	AUS	NZ	Model #	Description
7012890479	AT010590522	•	•	TRM-207C	3M™ Versaflo™ TR-300+ PAPR Kit which includes TR-302E+ Air filter unit, M-207 Headtop with flame resistant faceseal, BT-30 Breathing Tube, TR-970 Air flow indicator, TR-332 Battery Pack, TR-342A Single station Battery charger, TR-3712E PAPR-P3 Particulate filter, TR-371+ Filter cover, TR-3600 Prefilter, TR-362E Spark arrestor, TR-325 Standard waist belt and S1303-0166 padded bag
7012869262	AT010590548	•	•	TRM-307C	3M™ Versaflo™ TR-300+ PAPR Kit which includes TR-302E+ Air filter unit, M-307 Headtop with flame resistant faceseal, BT-30 Breathing Tube, TR-970 Air flow indicator, TR-332 Battery Pack, TR-342A Single station Battery charger, TR-3712E PAPR-P3 Particulate filter, TR-371+ Filter cover, TR-3600 Prefilter, TR-362E Spark arrestor, TR-325 Standard waist belt and S1303-0166 padded bag.
7012875691	AT010590563	•	•	TRM-407C	3M™ Versaflo™ TR-300+ PAPR Kit which includes TR-302E+ Air filter unit, M-407 Headtop with flame resistant shroud, BT-30 Breathing Tube, TR-970 Air flow indicator, TR-332 Battery Pack, TR-342A Single station Battery charger, TR-3712E PAPR-P3 Particulate filter, TR-371+ Filter cover, TR-3600 Prefilter, TR-362E Spark arrestor, TR-325 Standard waist belt and S1303-0166 padded bag
7012868876	AT019494742	•	•	CAPM-307C	3M™ Versaflo™ TR-300+ PAPR kit which includes TR-302E+ Air filter unit, M-307 Headtop with flame resistant faceseal and reflective tape, M-940 cap lamp bracket, BT-30 Breathing Tube, TR-970 Air flow indicator, TR-332 Battery Pack, TR-342A Single station Battery charger, TR-3712E PAPR-P3 Particulate filter, TR-371+ Filter cover, TR-3600 Prefilter, TR-362E Spark arrestor, TR-325 Standard waist belt and S1303-0166 padded bag.

3M Versaflo TR-300+, TR-600 and TR-800 Comparison Chart

	3M™ Versaflo™ TR-300+ PAPR	3M™ Versaflo™ TR-600 PAPR	3M™ Versaflo™ TR-800 PAPR
			
Availability	AU & NZ	AU & NZ	AU & NZ
Blower part no.	TR-302E+	TR-602E	TR-802E
AS/NZS 1716 Approved configurations	Yes	Yes	Yes
PAPR-P3 Filter	TR-3712E	TR-6710ANZ	TR-6710ANZ
Pre-Filter	TR-3600	TR-6600	TR-6600
Spark Arrestor	TR-362	TR-662	TR-662
Gas and Vapour Cartridges	No	TR-6310ANZ PAPR-A1P3 TR-6580ANZ PAPR-A1B1E1HgP3 TR-6350N FORM/HEPA	TR-6310ANZ PAPR-A1P3 TR-6580ANZ PAPR-A1B1E1HgP3 TR-6350N FORM/HEPA
Nuisance Level[6]	TR-3802E Organic Vapour TR-3822E Acid Gas	TR-6110E Organic Vapour	TR-6110E Organic Vapour
Battery Run Time[1] (~ hours) & Watt Hour (Wh)	TR-332: 8 - 12 hours, 60 Wh	TR-630: 4 - 12 hours, 60 Wh TR-632: 7 - 19 hours, 91 Wh	TR-830: 4 - 8 hours, 44 Wh
Battery Charge Time (~ hours)	<3.5	< 3.5 hrs (TR-630) <4.5 hrs (TR-632)	<4
Chargers*	TR-342A TR-342-3	TR-642A TR-642-3	TR-642A TR-642-3
Approximate Airflow (Loose Fitting)	Std: 185 lpm High: 205 lpm	Std: 185 lpm Med: 205 lpm High: 225 lpm	Std: 185 lpm Med: 205 lpm High: 225 lpm
Approximate Airflow (Tight Fitting)	NA	Std: 135 lpm Med: 150 lpm High: 170 lpm	Std: 135 lpm Med: 150 lpm High: 170 lpm
Cleaning (blower only)	Wipe down only	Wipe down, or rinse or submerge with use of TR-653 Cleaning & Storage Kit	Wipe down, or rinse or submerge with use of TR-653 Cleaning & Storage Kit
Ingress Protection	IP53 Rating in use[2]	IP54 Rating in use[3] IP67 with cleaning & storage kit in place[7]	IP54 Rating in use[3] IP67 with cleaning & storage kit in place[7]
Elevation Limits	-610 m to 4300 m	-610 m to 5000 m	-610 m to 5000 m
Belt and Backpack Options*	TR-325 Standard Belt TR-326 High Durability Belt TR-327 Easy Clean Belt BPK-HD Backpack TR-927 Backpack TR-626X Extender TR-627X Extender	TR-626 High Durability Belt TR-627 Easy Clean Belt BPK-HD Backpack TR-927 Backpack TR-626X Extender TR-627X Extender	TR-626 High Durability Belt TR-627 Easy Clean Belt BPK-HD Backpack TR-927 Backpack TR-626X Extender TR-627X Extender
Blower Alarms	Visual/Audible	Visual/Audible/Vibratory	Visual/Audible
User Interface	Battery charge, filter loading and airflow status alarm	Battery charge, filter loading and airflow status alarm	Battery charge, filter loading and airflow status alarm
Battery Cycles	Approx. 500 – Full charge/ discharge cycles equivalents until 80% of the original capacity over the course of the first year of service when used under recommended conditions	Approx. 500 – Full charge/ discharge cycles equivalents until 80% of the original capacity over the course of the first year of service when used under recommended conditions	Approx. 750 – Full charge/ discharge cycles equivalents until 80% of the original capacity over the course of the first year of service when used under recommended conditions

*Refer to code sections for further information on country availability.

	3M™ Versaflo™ TR-300+ PAPR	3M™ Versaflo™ TR-600 PAPR	3M™ Versaflo™ TR-800 PAPR
Battery Type	Lithium Ion	Lithium Ion	Lithium Ion
Headtops*	M-Series, S-Series	M-Series, S-Series, Selected Tight-fitting styles (bayonet style)	M-Series, S-Series, Selected Tight-Fitting (bayonet style)
Breathing Tubes (Loose Fitting)*	BT-20S, BT-20L, BT-30, BT-40	BT-20S, BT-20L, BT-30, BT-40	BT-20S, BT-20L, BT-30, BT-40
Breathing Tubes (Tight Fitting)*	NA	BT-63 BT-64	BT-63 BT-64
Approximate Blower Weight without battery	386 grams	635 grams	680 grams
Approximate Battery Weight	362 grams	453 grams 589 grams	680 grams
Approximate Blower Dimensions with HE filter and cover	20.3 cm W x 17.7 cm H x 7.6 cm D	25.4 cm W x 20.3 cm H x 7.6 cm D	25.4 cm W x 20.3 cm H x 7.6 cm D
Shelf Life	Blower: 5 years[5] Battery: 1 year[4] PAPR Filter: 5 years	Blower: 5 years[5] Battery: 1 year[4] PAPR Filter: 5 years	Blower: 5 years[5] Battery: 6 months[4] PAPR Filter: 5 years
Intrinsically Safe	No	No	Yes - Blower with battery certified to UL/IEC 60079 (2013) and SIMTARS IECEX SIM 19.0013

*Refer to code sections for further information on country availability

1) Estimated system run time based on testing with a new battery and a new clean filter at 20°C (68°F). Actual system run time may be extended or shortened depending on system configuration and environment.

2) Suitable for use in a decontamination shower with a spray angle of up to 60 degrees from vertical

3) The IP54 rating indicates the unit is protected against infiltration of dusts and water splash that would interfere with normal operation

4) Battery packs should be charged immediately and fully upon receipt. TR-300+ and TR-600 batteries should be recharged after each use and at least every 9-12 months. TR-800 battery should be recharged after each use and at least every 6 months.

5) The motor must be run for at least 5 minutes annually to ensure proper lubrication and operation

6) Nuisance level refers to concentrations not exceeding Workplace Exposure Standard/Limit (WES/WEL)

7) The IP67 rating indicates the unit is protected against infiltration of dusts and can now be rinsed under running water, immersed, or put in a respirator washer for further cleaning as long as the 3M™ Cleaning and Storage Kit TR-653 inlet and outlet plugs are installed.

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QR-CAT-FULL

Full Personal Safety Division Catalogue

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3M™ Versaflo™ M-400 Helmet

Technical Data Sheet

Description

An air supplied helmet that provides respiratory, eye, face and head protection when suitably connected to an AS/NZS 1716 compliant air supply system. It comes with a neck and shoulder shroud for extra protection.

Features

- Lightweight, with excellent balance
- Fully-adjustable suspension that includes textile straps for optimal fit and weight distribution
- M-400 headtop offers head protection to AS/NZS 1801
- Multiple size adjustment options allow for a comfortable fit
- An air deflector allows users to direct the airflow down or into the face for increased control and comfort
- Visor design combines excellent peripheral and downward vision with good optical clarity
- Coated polycarbonate visor provides added chemical and scratch resistance and high impact protection
- QRS (Quick Release Swivel) breathing tubes allow fast and easy snap on/off connection
- A length-adjusting breathing tube is also available
- Easily removable parts allow simple cleaning, maintenance and replacement
- Most user interface/adjustment points are highlighted in blue for convenience
- To suit a wide range of needs, industries and applications, the 3M™ Versaflo™ M-400 headtop offers shrouds in various fabrics
- Accessories include peel-off´s, head cover and shroud options and a cap lamp bracket
- Many parts are common to all 3M™ Versaflo™ M-Series headtops, meaning reduced inventories and downtime

Applications

There are many workplace applications, including:

- Grinding
- Foundries
- Heavy Industry
- Metal Fabrication
- Processing plants



Suitable for use with TR-800 Turbo Unit, TR-300+ Turbo Unit, TR-600 Turbo unit and supplied air 3M Regulating V-Series Regulators and Valves

Compatible with

PAPR


TR-300+


TR-600


TR-800

Continuous Flow Supplied Air


V-500E


V-100


V-200


V-300

Standards

The M-Series headtops meet the performance requirements of Australian/New Zealand Standards AS/NZS 1716:2012:

- when connected to the 3M™ TR-800, TR-600, TR-300+.
- when connected to the 3M™ Air Regulating Valves or 3M™ Vortex™ Regulators.

AS/NZS 1337.1 compliant high impact eye/face protection.

AS/NZS 1801 Type 1 Industrial Safety Helmet.

Operation/Cleaning

Users need to be trained in the safe operation of this equipment. Routine checks must be carried out in accordance with the user instructions. Cleaning should also only be carried out as specified in the user instructions.

Specifications

	Versaflo™ M-400 Helmet
Weight	1066g (without breathing tube)
Storage Conditions	-30°C to +50°C and <90% humidity

Ordering Information

		Availability			
SAP ID	Legacy ID	AUS	NZ	Model #	Description
7000104037	XA007707483	•	•	M-406	3M™ Versaflo™ High Impact Helmet M-406, with Premium Visor and M-448 Codura Shroud, 1 ea/Case
7100258668	UU011469994	•	•	M-407	3M™ Versaflo™ M-Series Helmet with Flame Resistant Shroud, M-407, 1 Each/Case



BT-20 S/L



BT-30



BT-40

QR-PSA-BT

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Breathing Tubes

		Availability			
SAP ID	Legacy ID	AUS	NZ	Model #	Description
7100296133	70071767472	•		BT-20L	3M™ Versaflo™ Breathing Tube BT-20L, Medium/Large, 1 ea/Case. Fixed length lightweight Polyurethane L=965mm
7100134625	70071533023	•		BT-20S	3M™ Versaflo™ Breathing Tube, BT-20S/37309(AAD), Small/Medium, 1 EA/Case. Short Fixed length lightweight Polyurethane L=735mm
7100006955	XA007706584	•	•	BT-30	3M™ Versaflo™ Breathing Tube, Self-adjusting, BT-30 L= 525-850
7100069524	UU003085113	•	•	BT-40	3M™ Versaflo™ Heavy Duty Breathing Tube BT-40, 1 ea/Case Fixed length Neoprene Rubber L=840mm

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Spare Parts & Accessories

SAP ID	Legacy ID	Availability AUS	Availability NZ	Model #	Description
7000042895	70071564218	•	•	M-316	3M™ Versaflo™ Airflow Deflector, M-316, 1/case
7000030034	70071564226	•	•	M-350	3M™ Versaflo™ Head Suspension, M-350, 1/case
7100063885	UU003029475	•	•	M-441	3M™ Versaflo™ Helmet Jaw Gasket M-441, 1 ea/Case
7100137832	UU008294819	•	•	M-444	3M™ Versaflo™ Inner Collar M-444, 1 ea/Case
7100137850	UU008294108	•	•	M-447	3M™ Versaflo™ Outer Shroud, Flame Resistant M-447, 1 ea/Case
7100137905	UU008294827	•	•	M-448	3M™ Versaflo™ Outer Shroud, Heavy Duty M-448, 1 ea/Case
7100289614	70071767514	•	•	M-449	3M™ Versaflo™ M-Series Leather Shroud M-449, 1 ea/Case
7000042899	70071564309	•	•	M-919	3M™ Versaflo™ M-Series Visor Frame Buttons M-919, 10 ea/Case
7000030038	70071564317	•	•	M-920	3M™ Versaflo™ Visor Frame Assembly, M-920, 1/case
7000042900	70071564325	•	•	M-921	3M™ Versaflo™ Visor Gasket, M-921, 5/case
7100288242	70071767332	•	•	M-924-25	3M™ Versaflo™ Tinted Peel-Off Covers M-924, for M-927 Premium Visor, 25 ea/Case
7000052876	UU003029442	•	•	M-927	3M™ Versaflo™ Premium Visor M-927/37324(AAD), 5 EA/Case
7100001829	70071564341	•	•	M-928	3M™ Versaflo™ Peel-Off Visor Covers M-928, 40 ea/Case
7100198700	70071732237	•	•	M-930	3M™ Versaflo™ M-930 Visor Lock Kit 5 EA/Bag
7100265324	70071766334	•	•	M-940	3M™ Versaflo™ Mining Lamp Bracket Kit M-940, for M-Series Hard Hats and Helmets, 1 ea/Case
7000044488	52000183096	•	•	M-953	3M™ Versaflo™ M-Series Helmet Headband Back Part Ratchet M-953, 1 Each/Bag, 20 Bag/Case
7100064142	UU003029772	•	•	M-956	3M™ Versaflo™ M-Series Size Reducing Ratchet Comfort Pad M-956, 10 ea/Case
7000103918	XA007705925	•	•	M-957	3M™ Versaflo™ Forehead Comfort Pad M-957, 10 Pair/Pack, 10 Pack/Case
7010604274	JH200201418	•	•	M-959	3M™ Versaflo™ Chinstrap M-959 for M-200/M-300/M-400 Helmet, 1 EA/Case
7100063882	UU003029434	•	•	M-972	3M™ Versaflo™ Flame Resistant Headtop Cover M-972, 1 ea/Case

QR-TRM-407C

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QR-ALVM-406E

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ALVM-406E Kit (902-03-86)
Includes 1 x CEJN 342 fitting attached

Ready to use M-400 PAPR & Continuous Flow Supplied Air Kits

		Availability			
SAP ID	**Legacy ID**	**AUS**	**NZ**	**Model #**	**Description**
7012875691	AT010590563	•	•	TRM-407C	3M™ Versaflo™ TR-300+ PAPR Kit which includes TR-302E+ Air filter unit, M-407 Headtop with flame resistant shroud, BT-30 Breathing Tube, TR-970 Air flow indicator, TR-332 Battery Pack, TR-342A Single station Battery charger, TR-3712E PAPR-P3 Particulate filter, TR-371+ Filter cover, TR-3600 Prefilter, TR-362E Spark arrestor, TR-325 Standard waist belt and S1303-0166 padded bag.
7012883633	AT010587809	•		ALVM-406E (902-03-86)	3M™ Versaflo™ Supplied Air Spray Kit ALVM-406E 902-03-86, with V-500E with CEJN 342 fitting BT-30 Breathing Tube & M-406 with S1303-066 Storage Bag, 1 ea/Case

SCAN OR CLICK FOR:

QR-CAT-PAPR

PAPR Catalogue Section

QR-CAT-CFSA

Continuous Flow Supplied Air Catalogue Section

QR-CAT-FULL

Full Personal Safety Division Catalogue

3M™ High Heat Accessories for 3M™ Versaflo™ M-300 and M-400 Helmets

The 3M™ Radiant Heat Covers M-973/M-975 when used in combination with the 3M™ M-967 Over-Visor offers 360° coverage of the 3M™ Versaflo™ M-300 / M-400 Helmets. Protection in accordance with EN ISO 11612:2015, EN 166:2001, EN 170:2002 and EN 171:2002 is offered against radiant heat and sparks/splashes for all parts of the helmet.

Features and Benefits:

- Designed to be robust and durable to withstand some of the harshest environments experienced in the metal production industry
- Adaptable - the radiant heat cover and overvisor components are fully modular allowing the user to create multiple combinations and different coverage levels to adapt the unit to their specific needs and environment
- Low profile, designed specifically for use with 3M™ Versaflo™ M-300 / M-400 Helmets
- The flip-up over-visor design provides the user with the flexibility of shaded IR/UV protection when needed and the peace of mind of clear vision when not required
- Utilises the 3M™ Visor Carrier M-961 to fit to the 3M™ Versaflo™ M-300 / M-400 Helmets
- Optional 3M™ Radiant Heat Breathing Tube Cover BT-927 also available



Typical Industries:

- Metalworking
- Foundries
- Glass industry
- Ceramic / porcelain industry
- Refractory product industry



M-400 with M-975 Radiant Heat Cover with M-967 Gold Over Visor



3M™ Gold Over Visor M-967



3M™ Over Visor Frame M-961



3M™ Radiant Heat Cover M-973 for M-300



3M™ Radiant Heat Cover M-975 for M-400



3M™ Breathing Tube Radiant Heat Cover BT-927

Radiant Heat Cover Performance	
EN ISO 11612 Code letter and classification Heat transmission performance requirement	
A1	Limited flame spread
B1	Convective hear
C3	Radiant heat
D3	Molten aluminium splash
E3	Molten iron splash

Gold Over Visor and Over Visor Frame Performance						
Model	**European standard**	**Scale number**	**Optical class**	**Symbol**	**Field of use**	**Mechanical strength**
M-967 Gold Over Visor	EN 166:2001		1	BT	High speed particles	Medium energy impact at extremes of temperature
				9	Molten metal splash	
	EN 170:2002	2-5 (UV)				
	EN 171:2002	4-5 (IR)				
M-961 Over Visor Frame	EN 166:2001			BT	High speed particles	Medium energy impact at extremes of temperature
				9	Molten metal splash	

		Availability			
SAP ID	**Legacy ID**	**AUS**	**NZ**	**Model #**	**Description**
7100099853	UU006077661	•	•	M-973	3M™ Versaflo™ Radiant Heat Cover, M-973
7100099910	UU006081861	•	•	M-961	3M™ Versaflo™ Over-visor Frame M-961, 1 ea/Case
7100099909	UU006081887	•	•	M-967	3M™ Versaflo™ Over-visor, Gold, IR Shade 5, M-967
7100099854	UU006077679	•	•	M-975	3M™ Versaflo™ PAPR Radiant Heat Cover M-975, for M-400, 1 ea/Case
7100099908	UU006081895	•	•	BT-927	3M™ Versaflo™ Breathing Tube Radiant Heat Cover BT-927, 1 ea/Case

QR-MS-HHA

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QR-PSA-VID

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3M™ M-Series Headgear Assemblies Comparison Chart

	M-206	M-207	M-306	M-307 & M-307CAP	M-406	M-407
				 M-307 M-307CAP		
Availability	AU	AU & NZ	AU & NZ	AU & NZ	AU & NZ	AU & NZ
Style	Loose fitting facepiece faceshield	Loose fitting facepiece faceshield	Loose fitting facepiece helmet	Loose fitting facepiece helmet	Loose fitting facepiece helmet with shroud	Loose fitting facepiece helmet with shroud
Air sources approved with*	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800 PF-600E-ASB	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800 PF-600E-ASB	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800 PF-600E-ASB	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800 PF-600E-ASB	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800
Eye and Face Protection	AS/NZS 1337.1 Eye & Face Protection - High Impact					
Head Protection	EN 812:2012 (Bumpcap protection)	EN 812:2012 (Bumpcap protection)	AS/NZS 1801 Occupational Protective Helmets - Type 1	AS/NZS 1801 Occupational Protective Helmets - Type 1	AS/NZS 1801 Occupational Protective Helmets - Type 1	AS/NZS 1801 Occupational Protective Helmets - Type 1
Optional Hearing Protection	AS/NZS 1270 Hearing Protectors	AS/NZS 1270 Hearing Protectors	AS/NZS 1270 Hearing Protectors	AS/NZS 1270 Hearing Protectors	Not applicable	Not applicable
Visor	M-925 standard visor	M-927 premium visor	M-925 standard visor	M-927 premium visor	M-925 standard visor	M-927 premium visor
Visor Material	Polycarbonate	Coated Polycarbonate (silicone hard coat)	Polycarbonate	Coated Polycarbonate (silicone hard coat)	Polycarbonate	Coated Polycarbonate (silicone hard coat)
Faceseal or Shroud	M-936 comfort faceseal	M-937 flame resistant faceseal	M-936 comfort faceseal	M-937 flame resistant faceseal	M-448 High Durability outer shroud; M-444 inner collar	M-447 flame resistant outer shroud; M-444 inner collar
Faceseal or Shroud Material	Polyurethane coated knitted polyamide	Flame retardant coated polyester	Polyurethane coated knitted polyamide	Flame retardant coated polyester	<u>Outer shroud:</u> High Durability Polyurethane coated knitted polyamide <u>Inner collar:</u> Polyurethane coated knitted polyamide	<u>Outer shroud:</u> Nomex® IIIA fabric <u>Inner collar:</u> Polyurethane coated knitted polyamide
Visor Area (approx.)	426 sq. cm	426 sq. cm	426 sq. cm	426 sq. cm	426 sq. cm	426 sq. cm
Visor Thickness (approx.)	<u>Center</u>: 2.3 mm <u>Edge</u>: 1.3 mm	<u>Center</u>: 2.3 mm <u>Edge</u>: 1.3 mm	<u>Center</u>: 2.3 mm <u>Edge</u>: 1.3 mm	<u>Center</u>: 2.3 mm <u>Edge</u>: 1.3 mm	<u>Center</u>: 2.3 mm <u>Edge</u>: 1.3 mm	<u>Center</u>: 2.3 mm <u>Edge</u>: 1.3 mm
Maximum Size Range[2] Circumference	51-64 cm	51-64 cm	51-64 cm	51-64 cm	51-64 cm	51-64 cm
Approx. Weight[3] g	624 g	626 g	850 g	857 g	1049 g	1190 g
Headgear Shell	HDPE (High density polyethylene)	HDPE (High density polyethylene)	PC/PBT alloy (polycarbonate/polybutylene terephthalate)	PC/PBT alloy (polycarbonate/polybutylene terephthalate)	PC/PBT alloy (polycarbonate/polybutylene terephthalate)	PC/PBT alloy (polycarbonate/polybutylene terephthalate)
Headband	M-150 TPE (Thermoplastic elastomer)	M-150 TPE (Thermoplastic elastomer)	M-350 TPE (Thermoplastic elastomer)	M-350 TPE (Thermoplastic elastomer)	M-350 TPE (Thermoplastic elastomer)	M-350 TPE (Thermoplastic elastomer)
Visor Frame	PC/PBT alloy (polycarbonate/polybutylene terephthalate)					
Visor Gasket (M-921)	TPE (Thermoplastic elastomer)					
Operating Temp.	-10° C to 55° C					
Storage Temp.	-30° C to 50° C Note: 4° C to 35° C (40° F to 95° F) suggested storage temperature range if product will be stored for an extended period before first use					
Natural Rubber Latex	Does not contain components made from natural rubber latex					
Maximum Life	5 year recommended maximum life (shelf life plus in use life) for all models when stored in original packaging and according to the recommended storage conditions. User must inspect headgear prior to each use to determine usability. Consult M-Series Headgear User Instructions for more information.					

*Refer to code sections for further information on country availability.

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3M™ Versaflo™ TR-300+ Filters

Technical Data Sheet

Description

The following filters are made to be used with the Versaflo™ TR-300+ Powered Air Purifying Respirator (PAPR) for protection against particulates and some nuisance concentration gases and vapours. These filters used with the TR-302E+ Powered Air Turbo are part of a respirator system compliant with the Australian/New Zealand Standard AS/NZS 1716:2012

Application

These filters are designed to capture airborne particulates (thermally and/or mechanically generated particulates) of all sizes.

The TR-3802E and TR-3822E also have a limited capability to adsorb organic vapours (TR-3802E) or acid gas (TR-3822E). These are for use against nuisance levels of these gas/vapours ie airborne concentrations that are below the relevant Workplace Exposure Standard (WES) for the specific gas/vapours involved.

For exposures above the WES of gas/vapours, the Versaflo™ TR-600 and its associated filters should be considered.

Protection Factors

When fitted with any of the PAPR-P3 filters, the Versaflo™ TR-300+ PAPR will give the wearer a protection factor of 50 against mechanically and thermally generated particles (AS/NZS 1715).

These PAPR products are available with a range of different headtops for various applications e.g. lightweight head coverings, hoods and headtops.

Specifications

Filtration	>99.95% efficient (AS/NZS1716:2012)
Length	350 (mm)
Width	195 (mm)
Height	125 (mm)
Weight	1.30 (kg)
Expiry	5 years from Date of Manufacture – indicated on filter



Compatible with



TR-300+

QR-TR300PLUS

Scan or Click for Tech Data Sheet



TR-3712E
PAPR-P3



TR-3802E
PAPR-P3 with nuisance* OV



TR-3822E
PAPR-P3 with nuisance* AG



TR-371+



TR-3600



TR-362E

* Nuisance levels are those levels below the Workplace Exposure Standards/(WES)Workplace Exposure Limits (WEL)

Service Life

The service life of these filters will vary according to the time of use, the selected flow rate and level of exposure to airborne particulates. There is a visual and audible alarm on the control panel of the air filter unit and an indication of current condition of the particle filter. When the filter is full a warning will sound and the filter will need to be replaced with a new one.

Disposal

If disposal of parts is required, this should be undertaken in accordance with local health and safety and environmental regulations.

Storage

This product should be stored in the packaging provided in dry, clean conditions, away from direct sunlight, sources of high temperature, petrol and solvent vapours. Do not store outside the temperature range -30°C to +50°C or with humidity above 90%. If the product will be stored for an extended period of time before use, the suggested storage temperature is 4°C to 38°C. Before initial use, always check that the product is within the stated shelf life (use by date).

Before selecting a filter the following should be considered:

- Complete a risk assessment.
- Identify and measure the hazardous substances in the workplace environment.
- Compare those airbourne contaminants to the relevant workplace exposure limit values.
- When selecting the correct RPE consider the properties of the hazardous substances, the needs and work of the wearer and workplace conditions.
- Does the atmosphere contain sufficient oxygen throughout the period of exposure?
- If there is insufficient oxygen or the contaminant concentrations are unknown or higher than the exposure limits then SCBA or Airline must be used.
- Responsibility for correct filter selection remains with the end user.

Limitations of use

- Do not use for respiratory protection against unknown atmospheric contaminants or when concentrations of contaminants are unknown or immediately dangerous to life or health (IDLH).
- Do not use in atmospheres containing less than 19.5% oxygen. (3M definition. Individual countries may apply their own limits on oxygen deficiency. Seek advice if in doubt).
- Do not use against contaminants with poor warning properties.
- The filter cannot be cleaned and should be replaced if excessively dirty.
- Keep inner filter seal clean. The seal can be cleaned with fresh water but ensure that water does not enter the filter.
- Never attempt to clean filters by knocking or blowing out accumulated material.

Product

The following filter options are available for the TR-302E+ Powered Air Turbo's:

		Availability			
SAP ID	Legacy ID	AUS	NZ	Model #	Description
7100266123	UU011647516	•	•	TR-3712E	3M™ Versaflo™ Filter PAPR-P3, TR-3712E
7100018809	78815069386	•	•	TR-3802E	3M™ Versaflo™ Filter PAPR-P3 with Nuisance O/V, TR-3802E
7100018861	78815069394	•	•	TR-3822E	3M™ Versaflo™ P/HF/Nuisance Level Acid Gas Filter TR-3822E, for 3M™ Versaflo™ TR-300 Turbo Series, 1 Filter/Car, 5 Car/Case
7000059880	AT010592650 (AU) CR180811422 (NZ)	•	•	TR-3600	3M™ Versaflo™ TR-300+ Prefilter, TR-3600, 1/case
7100099577	UU006386765	•	•	TR-371+	3M™ Versaflo™ Filter Cover TR-371+, for TR-300/TR-300+, 1 Bag/Case
7000103970	XA007706659	•	•	TR-362E	3M™ Versaflo™ Spark Arrestor TR-362E, 1/Car, 1 Carton/Case

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QR-CAT-PAPR

PAPR Catalogue Section

QR-CAT-FULL

Full Personal Safety Division Catalogue

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